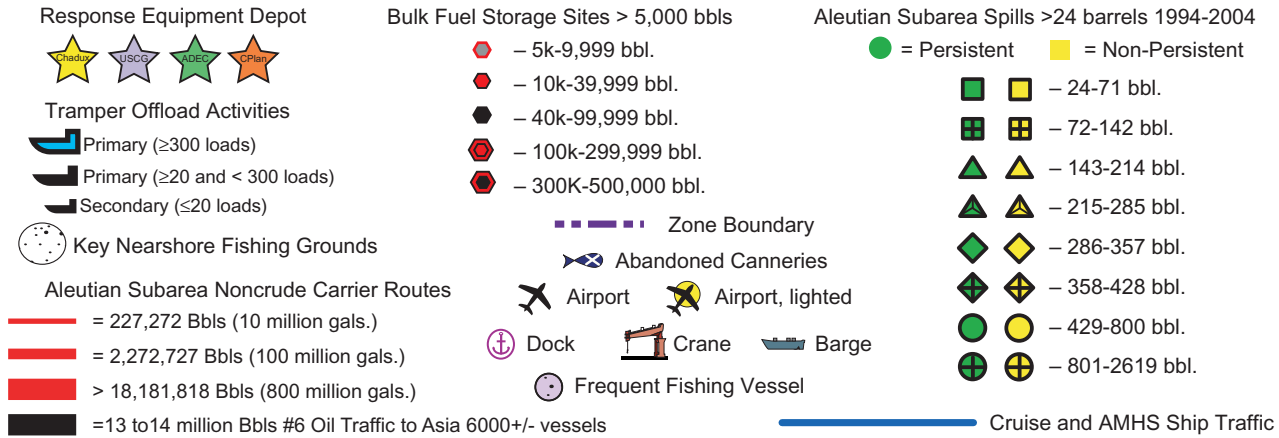


RISK SYMBOLS

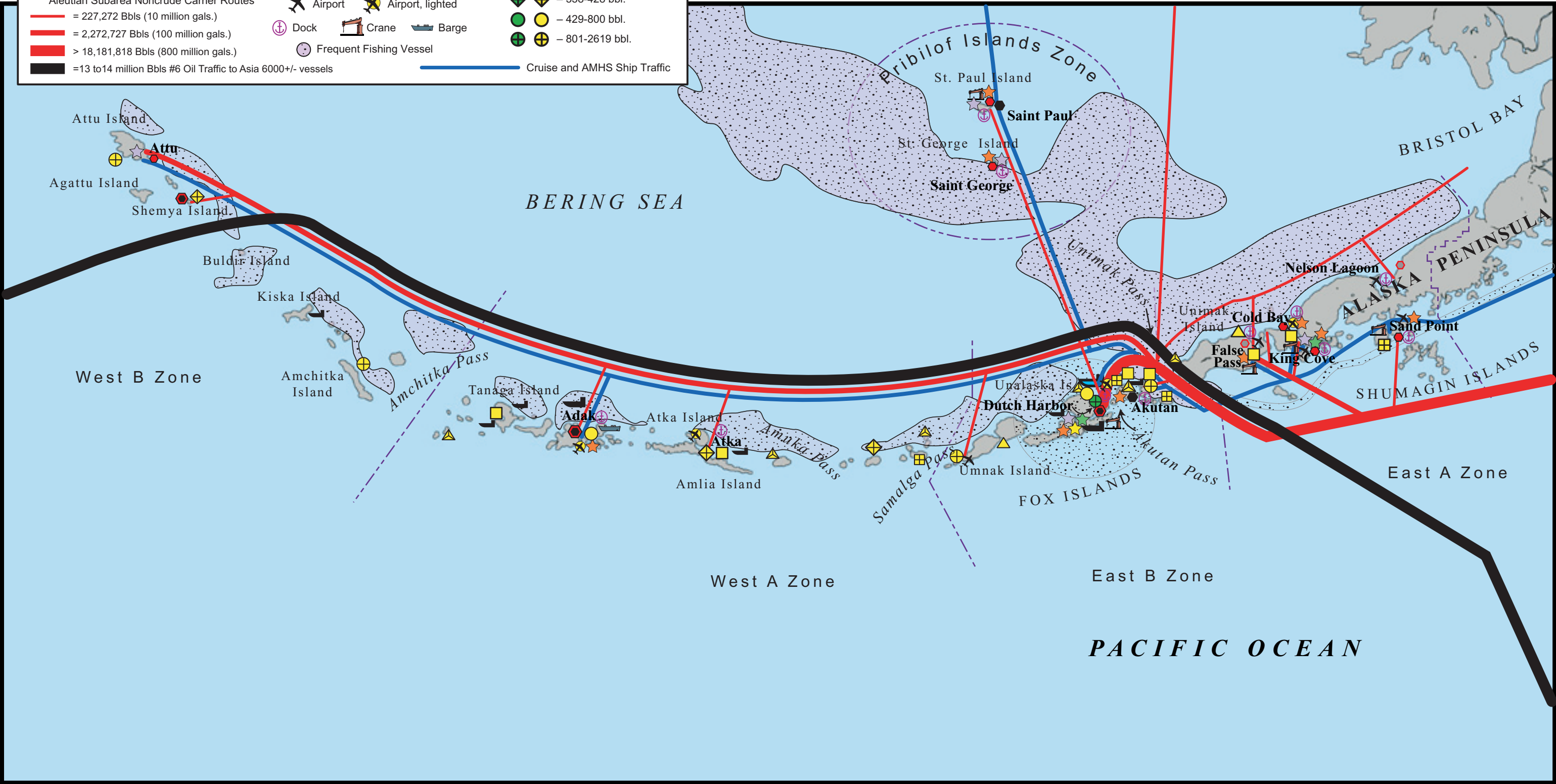


Aleutians Subarea, Alaska

May 31, 2004





RISK LAYERS for
CANDIDATE SITES for GEOGRAPHIC RESPONSE STRATEGIES

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RISK SYMBOLS


Response Equipment Depot







Tramper Offload Activities








Key Nearshore Fishing Grounds























Aleutian Subarea Noncrude Carrier Routes




Bulk Fuel Storage Sites > 5,000 bbls




Aleutian Subarea Spills >24 barrels 1994-2004




Zone Boundary




Abandoned Canneries




Airport




Airport, lighted




Dock




Crane




Barge



Frequent Fishing Vessel



Cruise and AMHS Ship Traffic

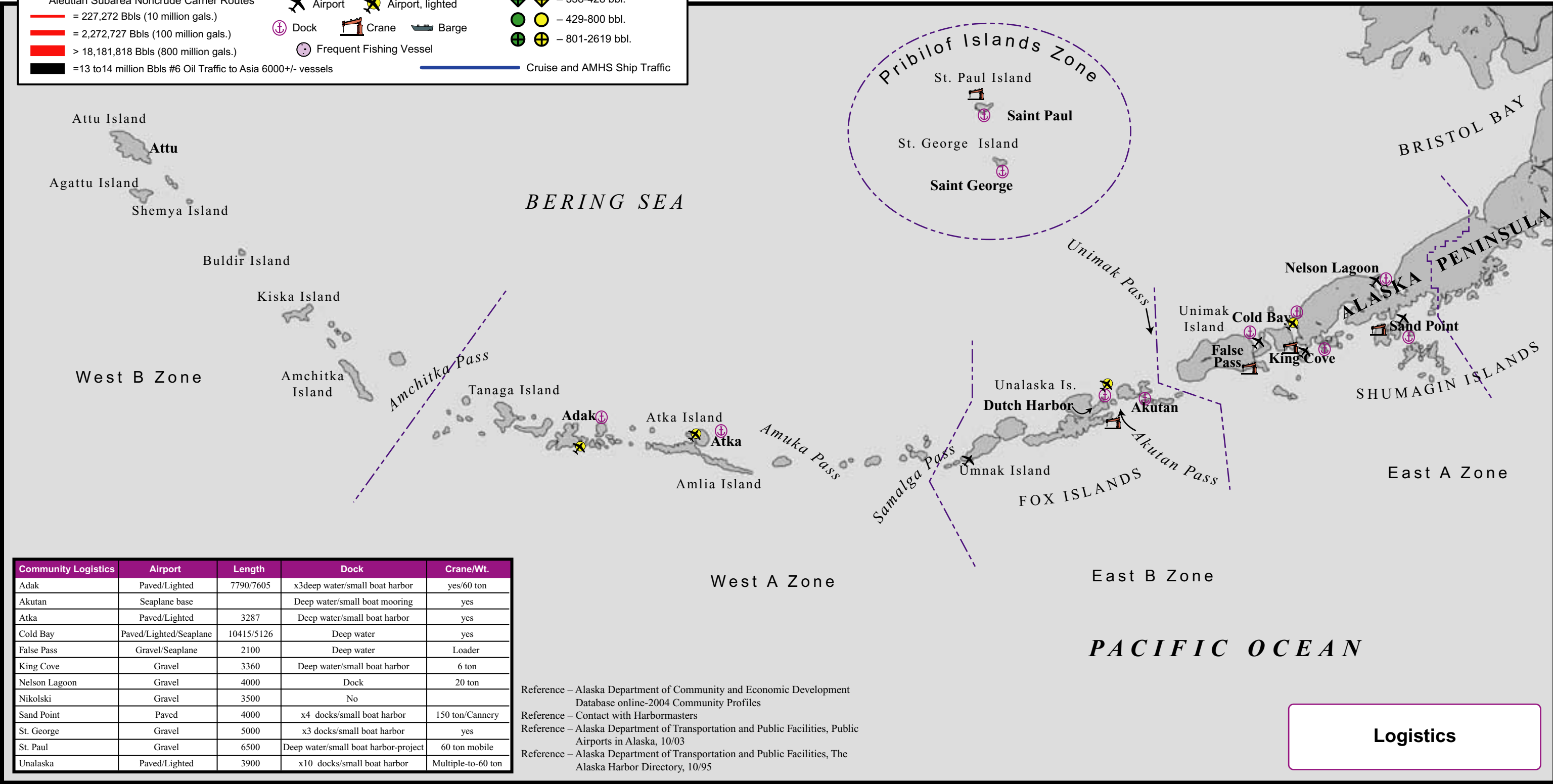


Aleutians Subarea, Alaska

May 31, 2004

RISK LAYERS for
CANDIDATE SITES for GEOGRAPHIC RESPONSE STRATEGIES





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Logistics

RISK SYMBOLS


Response Equipment Depot








Tramper Offload Activities




Key Nearshore Fishing Grounds




Bulk Fuel Storage Sites > 5,000 bbls




Zone Boundary




Abandoned Canneries




Airport




Airport, lighted




Dock




Crane



Barge















Frequent Fishing Vessel







Aleutian Subarea Spills >24 barrels 1994-2004


● = Persistent ● = Non-Persistent



Aleutian Subarea Noncrude Carrier Routes



Cruise and AMHS Ship Traffic

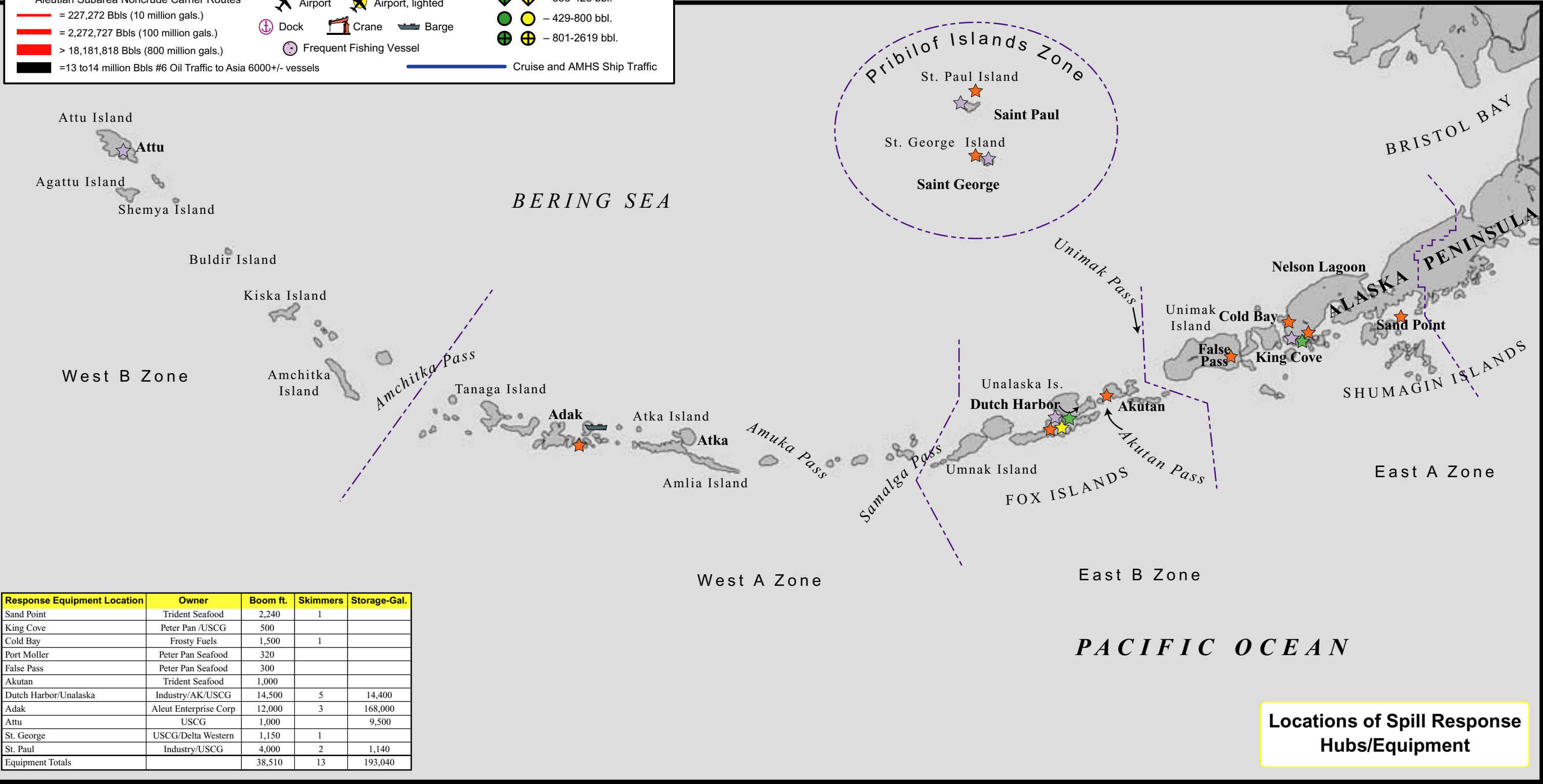


Aleutians Subarea, Alaska

May 31, 2004

RISK LAYERS for
CANDIDATE SITES for GEOGRAPHIC RESPONSE STRATEGIES





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Locations of Spill Response
Hubs/Equipment

RISK SYMBOLS


Response Equipment Depot







Tramper Offload Activities








Key Nearshore Fishing Grounds




Aleutian Subarea Noncrude Carrier Routes




Bulk Fuel Storage Sites > 5,000 bbls




Zone Boundary




Abandoned Canneries




Airport




Airport, lighted




Dock




Crane




Barge



Frequent Fishing Vessel















Cruise and AMHS Ship Traffic



Aleutian Subarea Spills >24 barrels 1994-2004

= Persistent = Non-Persistent



– 5k-9,999 bbl.

– 10k-39,999 bbl.

– 40k-99,999 bbl.

– 100k-299,999 bbl.

– 300K-500,000 bbl.

– 24-71 bbl.

– 72-142 bbl.

– 143-214 bbl.

– 215-285 bbl.

– 286-357 bbl.

– 358-428 bbl.

– 429-800 bbl.

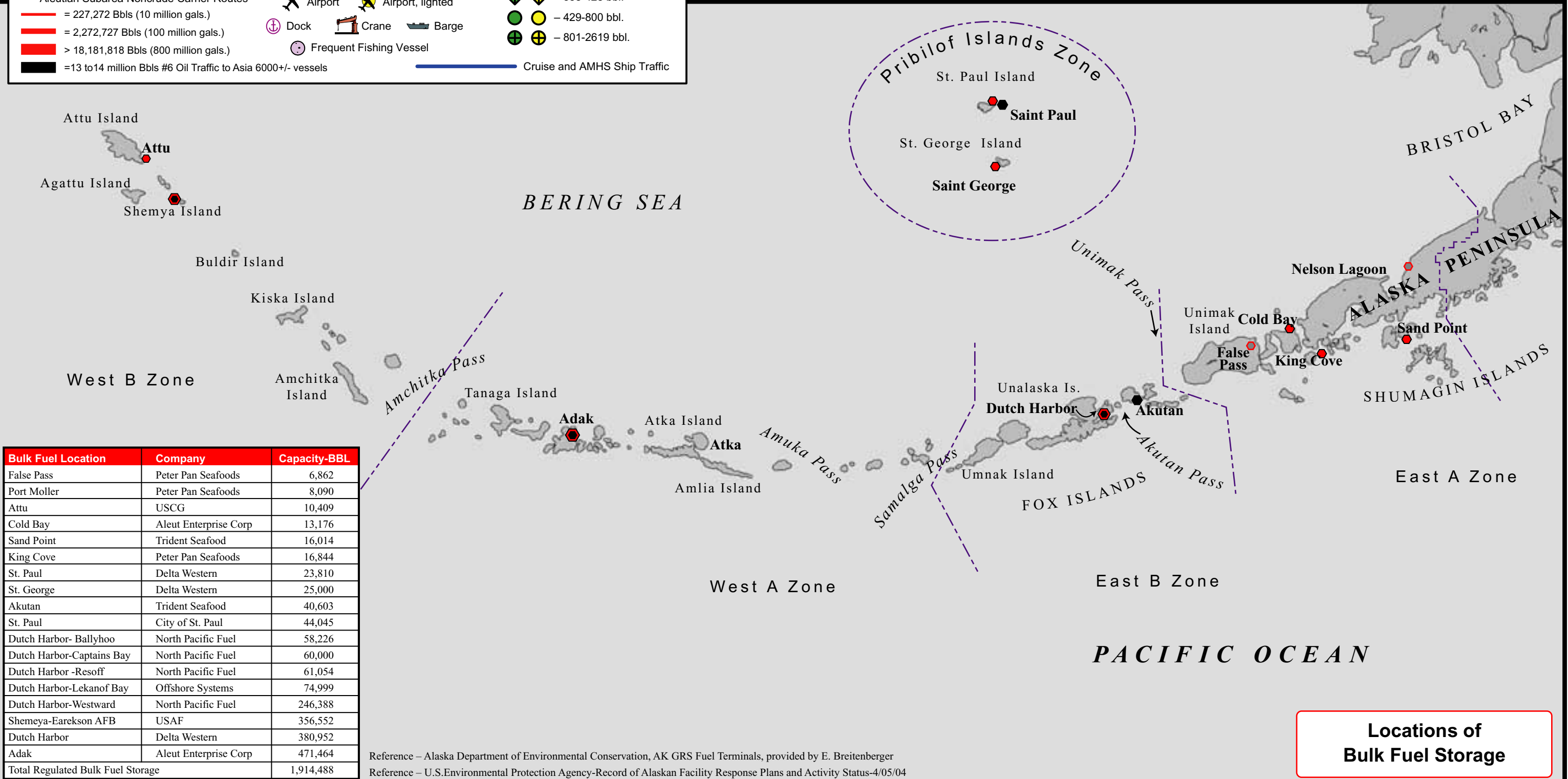
– 801-2619 bbl.

Aleutians Subarea, Alaska

May 31, 2004

RISK LAYERS for
CANDIDATE SITES for GEOGRAPHIC RESPONSE STRATEGIES





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Locations of
Bulk Fuel Storage

RISK SYMBOLS


Response Equipment Depot








Tramper Offload Activities




Key Nearshore Fishing Grounds




Bulk Fuel Storage Sites > 5,000 bbls




Zone Boundary




Abandoned Canneries




Airport




Airport, lighted




Dock




Crane




Barge





Frequent Fishing Vessel





Cruise and AMHS Ship Traffic











Aleutian Subarea Spills >24 barrels 1994-2004



Persistent



Non-Persistent



Spill Ranges

24-71 bbl.

72-142 bbl.

143-214 bbl.

215-285 bbl.





286-357 bbl.

358-428 bbl.

429-800 bbl.

801-2619 bbl.

Aleutian Subarea Noncrude Carrier Routes



227,272 Bbls (10 million gals.)

2,272,727 Bbls (100 million gals.)

> 18,181,818 Bbls (800 million gals.)

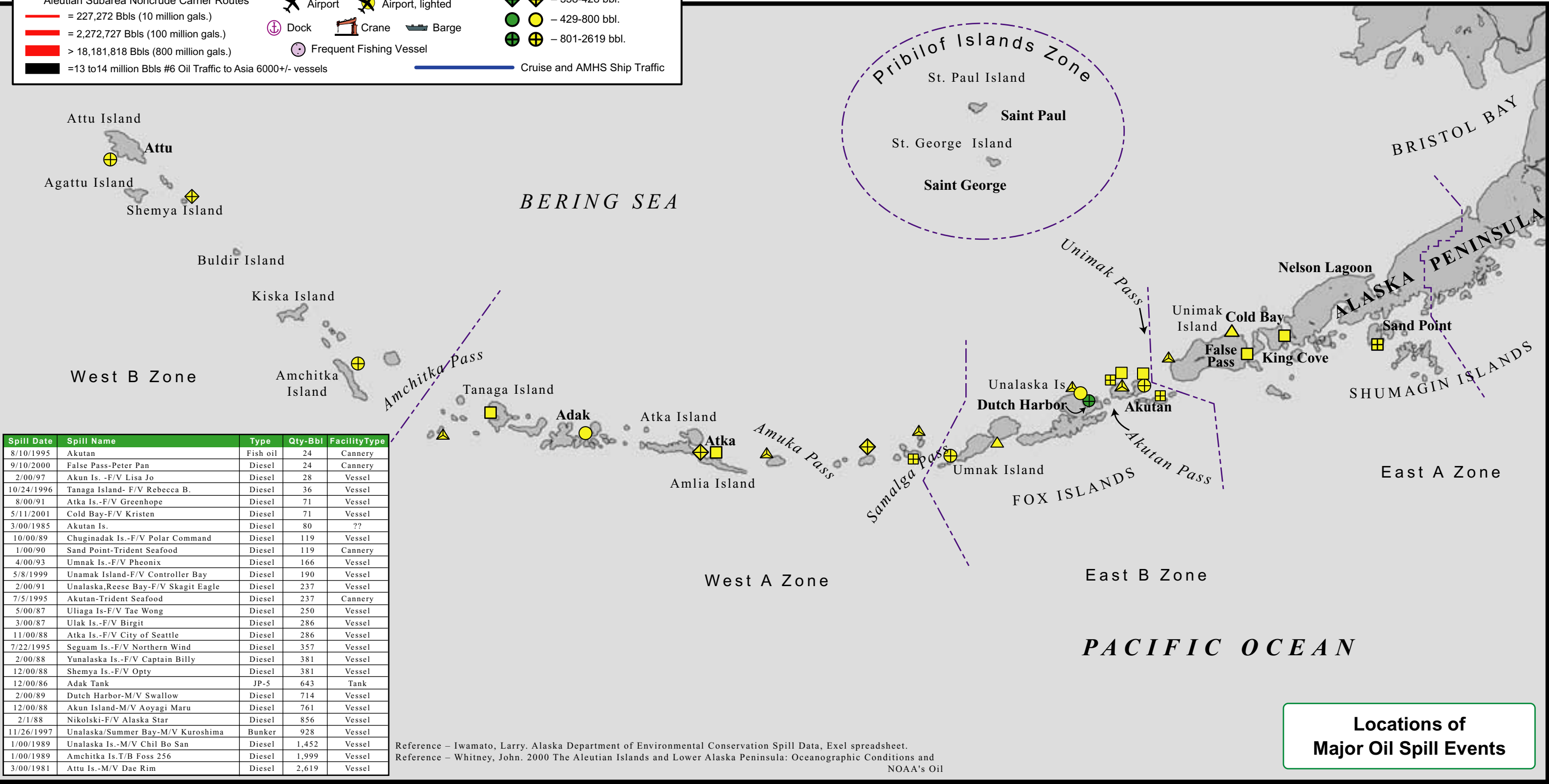
=13 to14 million Bbls #6 Oil Traffic to Asia 6000+/- vessels

Aleutians Subarea, Alaska

May 31, 2004

RISK LAYERS for
CANDIDATE SITES for GEOGRAPHIC RESPONSE STRATEGIES





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Locations of
Major Oil Spill Events

RISK SYMBOLS


Response Equipment Depot







Tramper Offload Activities








Key Nearshore Fishing Grounds




Aleutian Subarea Noncrude Carrier Routes




Bulk Fuel Storage Sites > 5,000 bbls




Zone Boundary



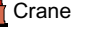
Abandoned Canneries




Airport




Airport, lighted




Dock




Crane





Barge











Frequent Fishing Vessel











Aleutian Subarea Spills >24 barrels 1994-2004



Persistent



Non-Persistent



= 227,272 Bbls (10 million gals.)

= 2,272,727 Bbls (100 million gals.)

> 18,181,818 Bbls (800 million gals.)

=13 to14 million Bbls #6 Oil Traffic to Asia 6000+/- vessels

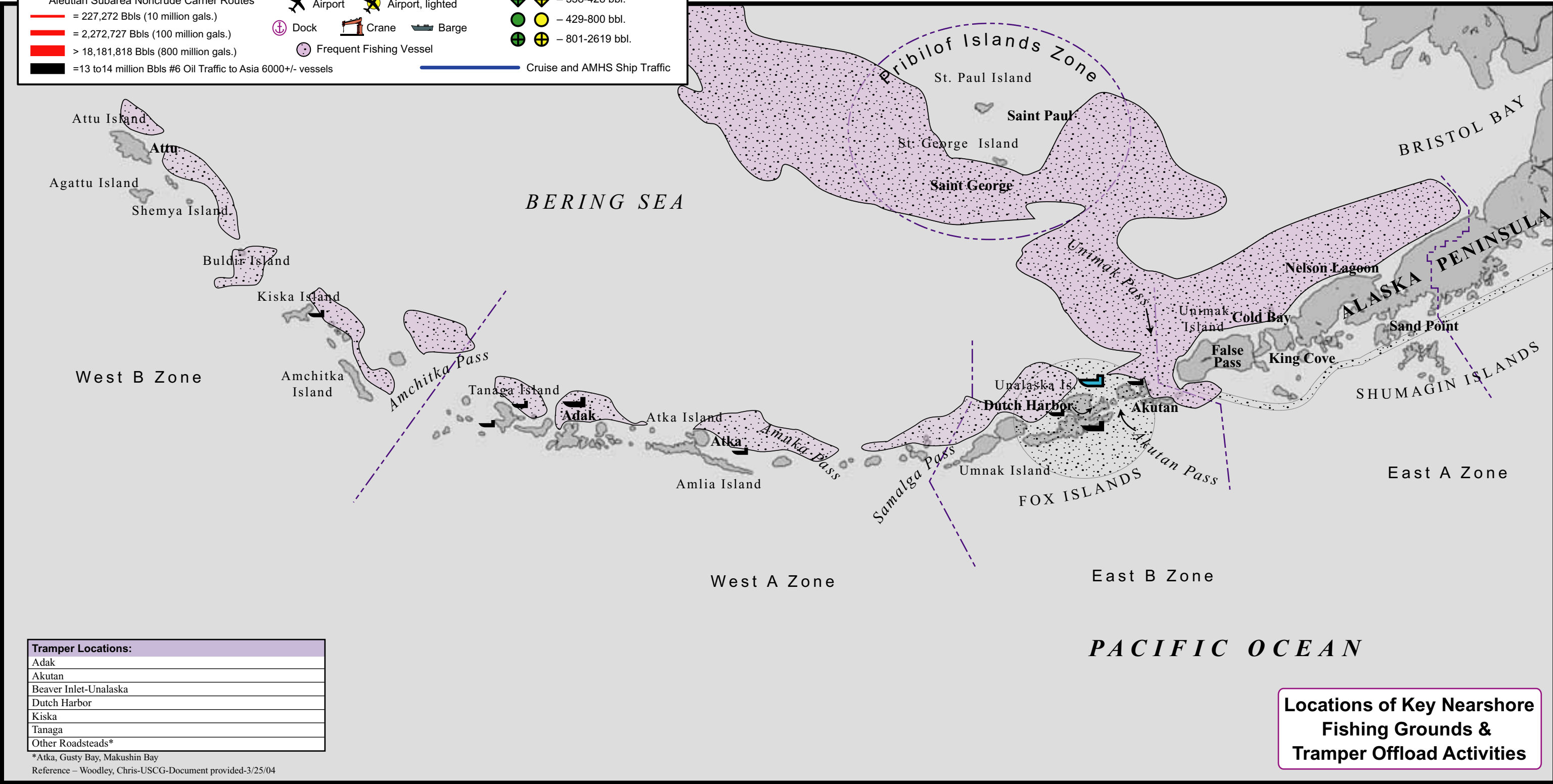
Cruise and AMHS Ship Traffic

Aleutians Subarea, Alaska

May 31, 2004

RISK LAYERS for
CANDIDATE SITES for GEOGRAPHIC RESPONSE STRATEGIES

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Tramper Locations:

Adak

Akutan

Beaver Inlet-Unalaska

Dutch Harbor

Kiska

Tanaga

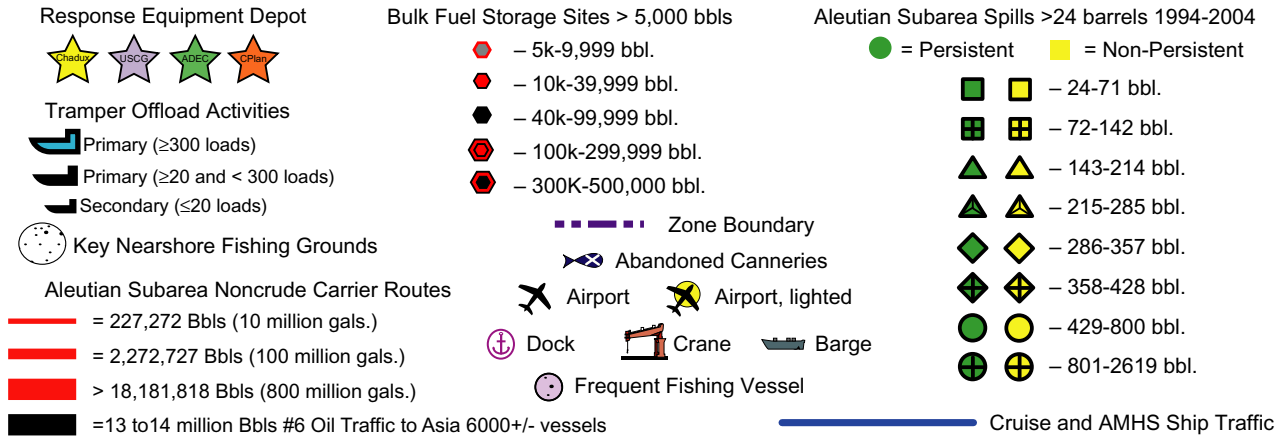
Other Roadsteads*

*Atka, Gusty Bay, Makushin Bay

Reference – Woodley, Chris-USCG-Document provided-3/25/04

Locations of Key Nearshore
Fishing Grounds &
Tramper Offload Activities

RISK SYMBOLS

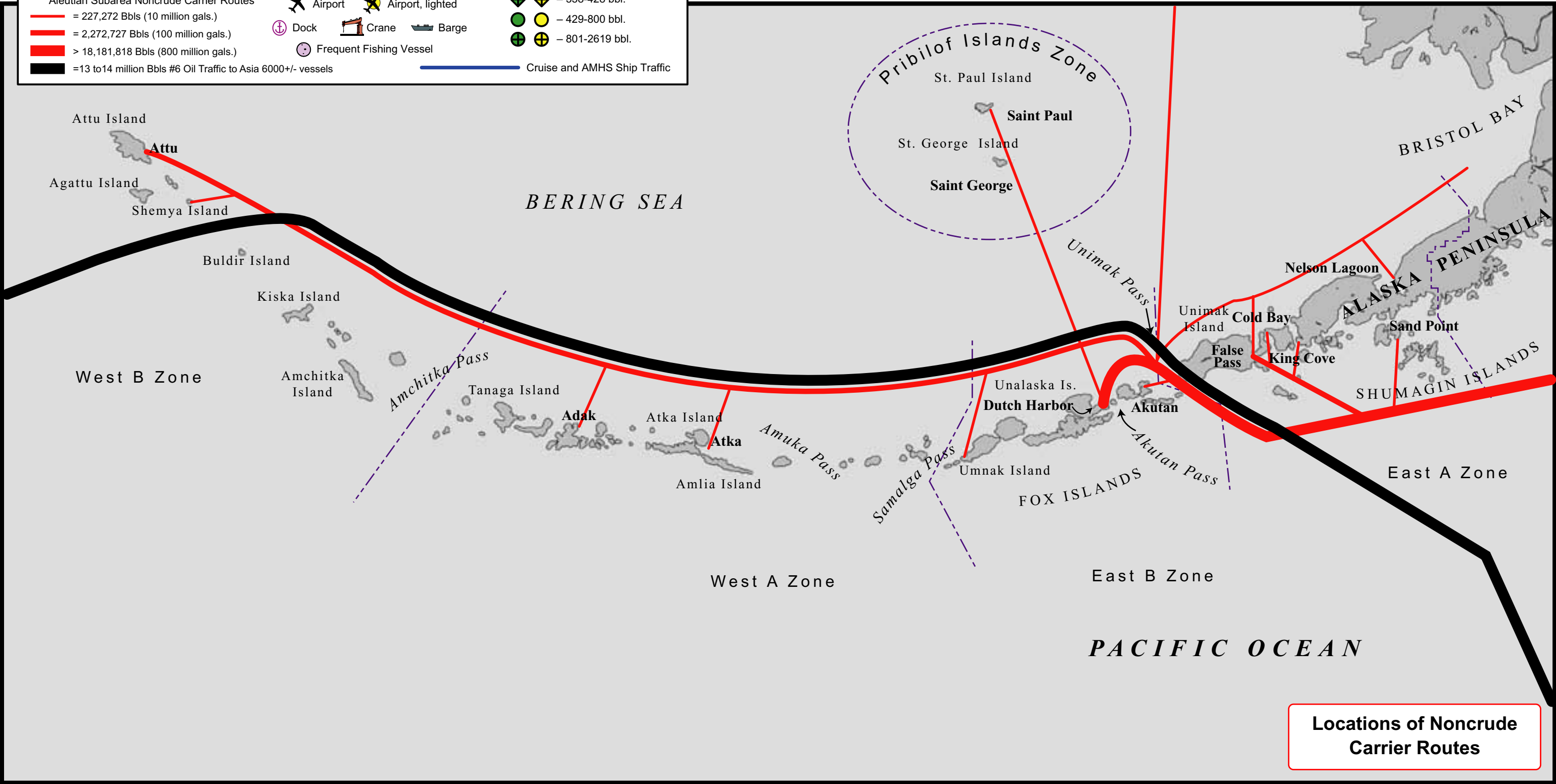


Aleutians Subarea, Alaska

May 31, 2004

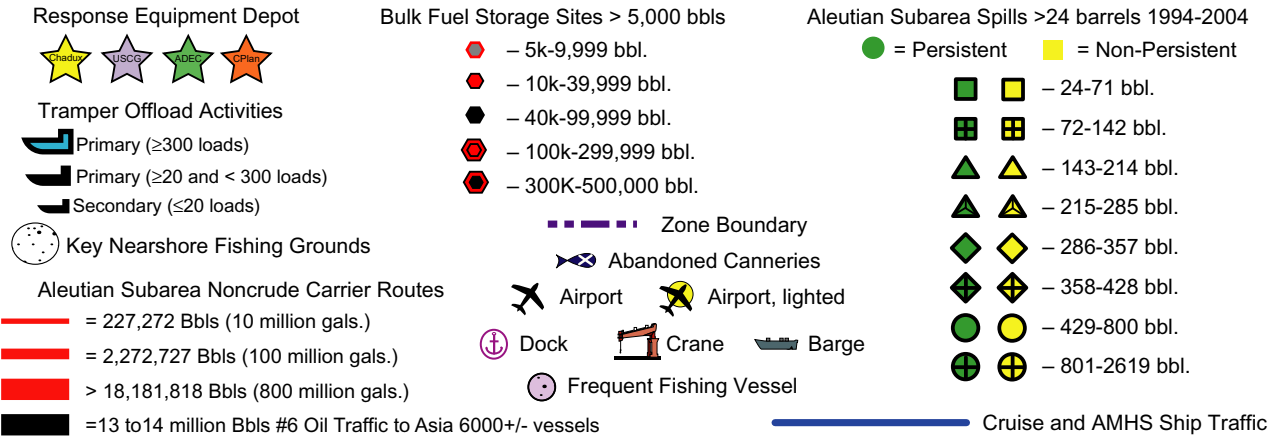
RISK LAYERS for
CANDIDATE SITES for GEOGRAPHIC RESPONSE STRATEGIES

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Locations of Noncrude
Carrier Routes

RISK SYMBOLS

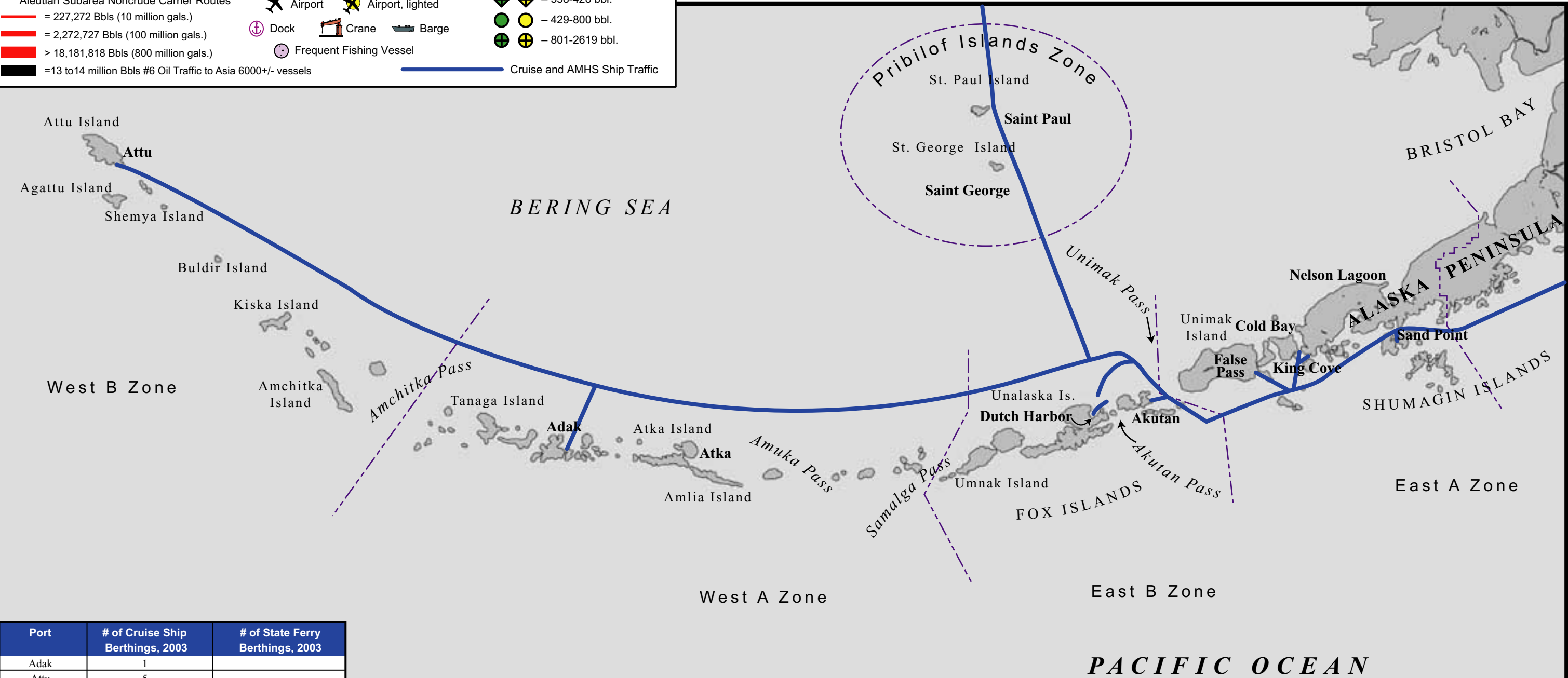


Aleutians Subarea, Alaska

May 31, 2004

RISK LAYERS for
CANDIDATE SITES for GEOGRAPHIC RESPONSE STRATEGIES

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Port	# of Cruise Ship Berthings, 2003	# of State Ferry Berthings, 2003
Adak	1	
Attu	5	
Cold Bay	1	12
Unalaska	10	14
St. Paul	9	
Akutan		12
False Pass		6
King Cove		12

Reference – Alaska Department of Transportation, Alaska Marine Highway 2003-2004 Schedule, Database online
<http://www1.dot.state.ak.us/amhs/schedres/scheds/index.html>
Reference – Northwest Cruiseship Association Database online,
<http://www.alaskacruises.org/ports/scheduleintro.cfm>, 2003 Port Schedule.xls

Locations of Cruise Ship
and Ferry Traffic